



Overview

- History & Operational Problem
- Proposed solution RMS
- **RMS** Metrics & Capabilities
- Data Characteristics
- Architecture
- System Characteristics
- User Base
- Continuing Work
- Continuing Challenges



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History & Operational Problem

- **★ Study commissioned by N13 (BUPERS)**
- Legacy retention reporting system was/is unsatisfactory
 - Limited access to information
 - Conflicting measures
 - Insufficient data available
 - No history
- Objective was to propose measures / systems that allow for efficient exchange and analysis of retention statistics



Proposed Solution

The new **Retention Monitoring System (RMS)** - a personnel data repository with reporting and query capability to compute a wide array of standardized retention, reenlistment, and attrition statistics.



RMS Metrics

Rate

Reenlistment Measures EAOS retention behavior

Reenlistments +LTE Reenlistments + LTE + EAOS losses

Attrition Rate

Measures non-EAOS

loss behavior

Non-EAOS losses Non-EAOS inventory

Retention Rate

Combines reenlistment and attrition rates

Reenlistments + LTE Reenlistments + LTE + all losses

* Other measures with standard definitions are available as required.



RMS Capabilities

Retention/Reenlistment/Attrition statistics by organizational structure...

All-Navy TYCOM Ship class

Fleet Squadron UIC

...and by any combination of the following dimensions:

- **★** Gender
- Race/Ethnic
- Pay Grade/LOS
- Zone/Term
- Skill (Rating, EMC)
- Sea/Shore Code

- Quality (AFQT, Education level)
- Marital/Dependency
- Geographic Location
- Organization



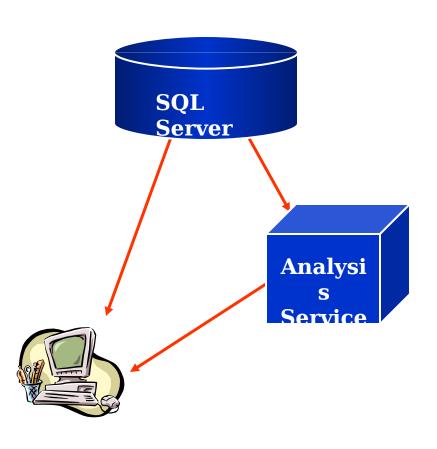
Data Characteristics

- * Relational database architecture.
- Historical data (Enlisted mid '92).
- Structured to facilitate answers to retention questions.
- Maintains a high level of fidelity to corporate data source.

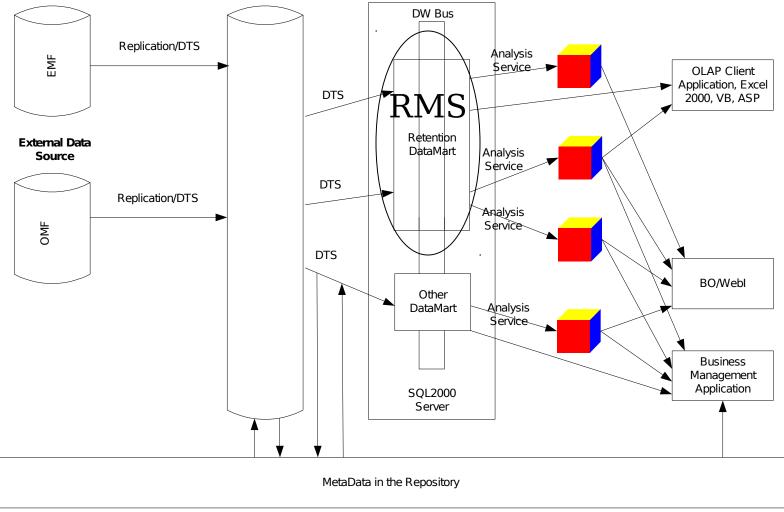
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Architecture

- **★** Relational Database
 - Base table storage
 - Views (queries)
- Multi-Dimensional Database
 - Cubes
 - On-Line Analytic Processing (OLAP)
- Front-end applications
 - Business Objects
 - Office Tools (Excel)
 - SPSS



RMS Structure OLTP System Data Staging Area Data Warehouse OLAP Cube Client Application





System Characteristics

- Accessible through various front ends (EXCEL, SPSS, Business Objects).
- Accessible through various connective technologies (ODBC, OLE, Web).
- Accessible at different levels.
 - Access primitive data elements (raw data).
 - Access multi dimensional data (data cubes).



User Base

- Researchers
 - Raw data (SPSS, SAS).
 - Multi-dimensional data cubes (EXCEL).
- Analysts
 - Raw data.
 - Multi-dimensional data cubes.
- Decision Makers
 - Summarized reports (Business Objects).



Continuing Work

- Develop metrics for Officer community.
- Identify relevant Officer data elements.
- Develop logical data map.



Continuing Challenges

- In the area of metrics:
 - What do you measure?
 - What level (individuals, organizations)?
 - Why do you measure (policy evaluation, organizational performance)?



Continuing Challenges

- In the area of process:
 - Who gets access to what?
 - Individual/organizational privacy
 - How to maintain currency of system?
 - How to maintain visibility of system?
 - How to manage revisions in reports due to system delays?



QUESTIONS?